



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 104472

TO: Christine Saoud
Location: CM1/10E03&10B19
Art Unit: 1647
Thursday, September 25, 2003

Case Serial Number: 09/905348

From: Barb O'Bryen
Location: Biotech-Chem Library
CM1-6A05
Phone: 308-4291
Bob
barbara.obryen@uspto.gov

Search Notes

RUSH

					Gencore version 5.1.6 Copyright (c) 1993 - 2003 Compugen Ltd.
OM protein - protein search, using sw model					
Run on:	September 24, 2003, 18:05:48 ; Search time 41 Seconds	(without alignments)			
Scoring table:	BLOSUM62	731.691 Million cell updates/sec			
Title:	US-09-905-348-1B				
Perfect score:	1045				
Sequence:	1 MTHRTTWARTRSAVTPTC..... QWWSVVPAPSRGQALRRAQ 189				
Searched:	1107863 seqs, 158726573 residues				
Total number of hits satisfying chosen parameters:	1107863				
Maximum DB seq length:	0				
Maximum DB seq length:	2000000000				
Post-processing: Minimum Match 0%					
Maximum Match 100%					
Listing first 45 summaries					
Database :	A_GeneSeq_19jun03:*				
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2:	/SIDS1/gcadata/geneseq/geneseq-emb1/AA1901.DAT:*				
3:	/SIDS1/gcadata/geneseq/geneseq-emb1/AA1902.DAT:*				
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9:	/SIDS1/gcadata/geneseq/geneseq-emb1/AA1908.DAT:*				
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11:	/SIDS1/gcadata/geneseq/geneseq-emb1/AA1910.DAT:*				
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22:	/SIDS1/gcadata/geneseq/geneseq-emb1/AA2001.DAT:*				
23:	/SIDS1/gcadata/geneseq/geneseq-emb1/AA2002.DAT:*				
24:	/SIDS1/gcadata/geneseq/geneseq-emb1/AA2003.DAT:*				
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.					
SUMMARIES					
Result No.	Score	Query Match Length	DB ID	Description	
1	1045	100.0	189 22	AAB80215	Human PRO232 prote
2	1045	100.0	189 24	ABU69625	Novel human secret
3	1045	100.0	189 24	ABU7143	Human PRO polypept
4	1045	100.0	189 24	ABU1894	Human secreted/tra
5	1045	100.0	189 24	ABU67348	Human secreted/pro
6	1045	100.0	189 24	ABU64502	Human secreted/tra
7	1045	100.0	189 24	ABU54350	Human secreted/tra
8	998	95.5	187 20	AAV66174	Human bladder tumo
9	119	11.4	1518 24	ABJ18375	Breast specific re
ALIGNMENTS					
ID	AAB80215	standard; Protein; 189 AA.	XX	RESULT 1	Human testes-deriv
AC	AAB80215;		XX		Human testes-deriv
DT	24-APR-2001	(first entry)	XX		Human testes-deriv
DE	Human PRO232 protein.		XX		Human testes-deriv
KW	Human: PRO; dermatological; antiparasitic; cytostatic; antiinflammatory; antiparkinsonian nootropic; neuroprotective; vulnerary; cardiot;		XX		Human testes-deriv
KW	antiangiogenic; vasoergic; antiasthmatic; antirheumatic; cancer;		XX		Human testes-deriv
KW	antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes;		XX		Human testes-deriv
KW	ophthalmological; gene therapy; skin disease; gastrointestinal disorder; ischaemia; inflammation.		XX		Human testes-deriv
OS	Homo sapiens.		XX		Human testes-deriv
XX	WO200104311-A1.		XX		Human testes-deriv
PD	18-JAN-2001.		XX		Human testes-deriv
PP	22-FEB-2000; 2000W0-US04414.		XX		Human testes-deriv
PR	07-JUL-1999; 990US-0143048.		XX		Human testes-deriv
PR	26-JUL-1999; 990US-0145698.		XX		Human testes-deriv
PR	28-JUL-1999; 990US-0146222.		XX		Human testes-deriv
PR	08-SEP-1999; 990US-050594.		XX		Human testes-deriv
PR	13-SEP-1999; 990US-050944.		XX		Human testes-deriv
PR	15-SEP-1999; 990US-051090.		XX		Human testes-deriv
PR	15-SEP-1999; 990US-21547.		XX		Human testes-deriv

PR 05-OCT-1999; 99WO-US23089.
 PR 29-NOV-1999; 99WO-US28214.
 PR 30-NOV-1999; 99WO-US28313.
 PR 16-DEC-1999; 99WO-US3005.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US3099.
 PR 05-JAN-2000; 99WO-US0219.
 XX
 PA (GETH) GENENTECH INC.
 PI Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DL, Ferrara N,
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A,
 PI Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Ki Javin IJ,
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
 PI Williams PM, Wood WI;
 XX
 DR WPI; 2001-081051/09.
 XX N-PSDB; AAF72374.
 PT Sixty one nucleic acids encoding PRO polypeptides which are useful in
 PT the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung
 PT squamous cell carcinoma) and neurodegenerative diseases (e.g.
 PT Alzheimer's disease).
 PS Claim 1; Fig 9; 393pp; English.
 XX
 CC The present sequence is one of sixty one novel secreted and
 CC transmembrane PRO polypeptides are
 CC useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung
 CC squamous cell carcinoma), gastrointestinal disorders (e.g. enterocolitis),
 CC neurodegenerative diseases (e.g. Alzheimer's disease, Parkinson's disease), wound repair, cardiovascular disorders (e.g. endometrial bleeding angiogenesis, ischaemias such as coronary
 CC ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis), infertility, AIDS and
 CC diabetes and retinal disorders such as retinitis pigmentosum, including
 CC the PRO nucleic acids have applications in molecular biology, including
 CC use as hybridization probes, and in chromosome and gene mapping.
 XX
 SQ Sequence 189 AA:

Query Match 100.0%; Score 1045; DB 22; Length 189;
 Best Local Similarity 100.0%; Pred No. 5.3e-86; Matches 189; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTHRRTTWARRTSRAVTPTCATPACPPMPCRLPPSLRSLHSACCSGDRASRYRNGAPLQ 60
 DB 1 MTHRRTTWARRTSRAVTPTCATPACPPMPCRLPPSLRSLHSACCSGDRASRYRNGAPLQ 60
 QY .61 PTLGVYPOASVPLTLAQEMPVLYPEAKHNASLTMVCTPVPHDPPMALSRTPTQIS 120
 DB 61 PTLGVYPOASVPLTLAQEMPVLYPEAKHNASLTMVCTPVPHDPPMALSRTPTQIS 120
 QY 181 RQQLRRRAQ 189
 DB 181 RGQALRRRAQ 189

RESULT 2
 ABU69625
 ID ABU69625 standard; Protein; 189 AA.
 AC
 XX
 DT 05-JUN-2003 (first entry)
 DE Novel human secreted and transmembrane protein PRO232.
 XX
 Human; secreted and transmembrane protein; gene therapy; psoriasis;

XX
 PR Homo sapiens.
 XX OS
 PR US2003017463-A1.
 PR PN
 PR XX
 PD 23-JAN-2003.
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 PR 11-JUL-2001; 2001US-0903640.
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 PR 10-SEP-1998; 99WO-US18824.
 PR 14-SEP-1998; 99WO-US19177.
 PR 16-SEP-1998; 99WO-US19330.
 PR 17-SEP-1998; 99WO-US19437.
 PR 01-DEC-1998; 98WO-US2308.
 PR 08-SEP-1999; 99WO-US20394.
 PR 13-SEP-1999; 99WO-US20944.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 08-SEP-1999; 99WO-US23089.
 PR 29-NOV-1999; 99WO-US28214.
 PR 30-NOV-1999; 99WO-US28313.
 PR 01-DEC-1999; 99WO-US28301.
 PR 02-DEC-1999; 99WO-US28364.
 PR 02-DEC-1999; 99WO-US28565.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30311.
 PR 20-DEC-1999; 99WO-US30399.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 22-FEB-2000; 2000WO-US0414.
 PR 24-FEB-2000; 2000WO-US0004.
 PR 02-MAR-2000; 2000WO-US03641.
 PR 20-MAR-2000; 2000WO-US0377.
 PR 22-MAY-2000; 2000WO-US1042.
 PR 02-JUN-2000; 2000WO-US1264.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 17-SEP-1997; 97US-059113P.
 PR 17-SEP-1997; 97US-059115P.
 PR 17-SEP-1997; 97US-059117P.
 PR 17-SEP-1997; 97US-059119P.
 PR 17-SEP-1997; 97US-059121P.
 PR 17-SEP-1997; 97US-059122P.
 PR 17-SEP-1997; 97US-059184P.
 PR 18-SEP-1997; 97US-059263P.
 PR 15-OCT-1997; 97US-062125P.
 PR 17-OCT-1997; 97US-062285P.
 PR 21-OCT-1997; 97US-063486P.
 PR 24-OCT-1997; 97US-063814P.
 PR 24-OCT-1997; 97US-063816P.
 PR 24-OCT-1997; 97US-063045P.
 PR 24-OCT-1997; 97US-063120P.
 PR 24-OCT-1997; 97US-063127P.
 PR 24-OCT-1997; 97US-063128P.
 PR 27-OCT-1997; 97US-063327P.
 PR 27-OCT-1997; 97US-063329P.
 PR 28-OCT-1997; 97US-063541P.
 PR 28-OCT-1997; 97US-063542P.
 PR 28-OCT-1997; 97US-063544P.
 PR 28-OCT-1997; 97US-063550P.
 PR 28-OCT-1997; 97US-063554P.

KW entero-colitis; gastrointestinal ulceration; skin disease;
 KW keratinocyte differentiation; epithelial cancer; Alzheimer's disease;
 KW squamous cell carcinoma; Parkinson's disease; inflammatory disease;
 KW amyotrophic lateral sclerosis; rheumatoid arthritis; asthma;
 KW multiple sclerosis; organ failure; atherosclerosis; cardiac injury;
 KW infertility; birth defect; premature aging; AIDS; cancer;
 KW diabetic complication; wound repair; tissue re-growth.

Query Match		100.0%	Score 1045;	DB 24;	Length 189;
Best Local Similarity	189;	Pred. No. 5; Jc-86;	Mismatches 0;	Indels 0;	Gaps 0;
Matches	189;	Conservative	0;		
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PR	31-OCT-1997;	97US-063732P.			
PR	29-OCT-1997;	97US-063734P.			
PR	29-OCT-1997;	97US-063735P.			
PR	29-OCT-1997;	97US-063738P.			
PR	29-OCT-1997;	97US-064215P.			
PR	31-OCT-1997;	97US-065870P.			
PR	31-OCT-1997;	97US-066103P.			
PR	03-NOV-1997;	97US-06A248P.			
PR	07-NOV-1997;	97US-06A809P.			
PR	12-NOV-1997;	97US-065186P.			
PR	17-NOV-1997;	97US-065846P.			
PR	18-NOV-1997;	97US-065693P.			
PR	21-NOV-1997;	97US-066364P.			
PR	24-NOV-1997;	97US-066453P.			
PR	24-NOV-1997;	97US-066466P.			
PR	24-NOV-1997;	97US-066511P.			
PR	24-NOV-1997;	97US-066770P.			
PR	25-NOV-1997;	97US-066772P.			
PR	12-DEC-1997;	97US-059425P.			
PR	10-SEP-1998;	98US-059803P.			
PR	14-SEP-1998;	98US-100262P.			
PR	17-SEP-1998;	98US-100858P.			
PR	13-OCT-1998;	98US-104080P.			
PR	20-NOV-1998;	98US-109304P.			
PR	22-DEC-1998;	98US-113226P.			
PR	07-JUL-1999;	99US-143048P.			
PR	26-JUL-1999;	99US-145698P.			
PR	28-JUL-1999;	99US-146222P.			
PR	18-SEP-2000;	2000US-0665350.			
PA	(GETH) GENENTECH INC.				
XX	Ashkenazi A, Borstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurley AL, Hillen KJ, KJavine LJ, Mathew JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;				
XX	Williams PM, Wood WI;				
XX	WPI: 2003-341586/32.				
DR	N-PSDB; ACA54821.				
XX	New PRO polypeptides and nucleic acid molecules, useful in diagnosing or treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's disease -				
PT	The invention describes sixty one nucleic acids encoding PRO polypeptides (secreted and transmembrane). The PRO polypeptides and nucleic acids are useful in diagnosing or treating enterocolitis, gastrointestinal ulceration, skin diseases associated with abnormal keratinocyte differentiation, e.g. psoriasis or epithelial cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g. rheumatoid arthritis, asthma or multiple sclerosis, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, diabetic complications, or mutations in general. The polypeptides are also useful for wound repair and associated therapies concerned with re-growth of tissue. The PRO polypeptides and nucleic acid molecules are also useful in gene therapy, and as molecular weight markers for protein electrophoresis purposes. The anti-PRO antibodies may be used in diagnostic assays for PRO, or for the affinity purification of PRO from recombinant cell culture or natural sources. This is the amino acid sequence of a novel human PRO polypeptide.				
PS	Claim 12; Fig 9; 47pp; English.				
PS	The invention describes sixty one nucleic acids encoding PRO polypeptides (secreted and transmembrane). The PRO polypeptides and nucleic acids are useful in diagnosing or treating enterocolitis, gastrointestinal ulceration, skin diseases associated with abnormal keratinocyte differentiation, e.g. psoriasis or epithelial cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g. rheumatoid arthritis, asthma or multiple sclerosis, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, diabetic complications, or mutations in general. The polypeptides are also useful for wound repair and associated therapies concerned with re-growth of tissue. The PRO polypeptides and nucleic acid molecules are also useful in gene therapy, and as molecular weight markers for protein electrophoresis purposes. The anti-PRO antibodies may be used in diagnostic assays for PRO, or for the affinity purification of PRO from recombinant cell culture or natural sources. This is the amino acid sequence of a novel human PRO polypeptide.				
XX	WPI: 2003-341586/32.				
XX	New PRO polypeptides and nucleic acid molecules, useful in diagnosing or treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's disease -				
PT	The invention describes sixty one nucleic acids encoding PRO polypeptides (secreted and transmembrane). The PRO polypeptides and nucleic acids are useful in diagnosing or treating enterocolitis, gastrointestinal ulceration, skin diseases associated with abnormal keratinocyte differentiation, e.g. psoriasis or epithelial cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g. rheumatoid arthritis, asthma or multiple sclerosis, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, diabetic complications, or mutations in general. The polypeptides are also useful for wound repair and associated therapies concerned with re-growth of tissue. The PRO polypeptides and nucleic acid molecules are also useful in gene therapy, and as molecular weight markers for protein electrophoresis purposes. The anti-PRO antibodies may be used in diagnostic assays for PRO, or for the affinity purification of PRO from recombinant cell culture or natural sources. This is the amino acid sequence of a novel human PRO polypeptide.				
PS	Claim 12; Fig 9; 47pp; English.				
XX	WPI: 2003-341586/32.				
XX	Human PRO polypeptide #4.				
XX	Human; secreted and transmembrane protein; PRO Polypeptide; cancer; Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic; neuroprotective.				
XX	Homo sapiens.				
OS	PN US2002192659-A1.				
XX	19-DEC-2002.				
PD	10-JUL-2001; 2001US-0902853.				
PF	10-SEP-1998; 98WO-US18824.				
PR	14-SEP-1998; 98WO-US19177.				
PR	16-SEP-1998; 98WO-US19330.				
PR	17-SEP-1998; 98WO-US19437.				
PR	01-DEC-1998; 98WO-US25108.				
PR	08-SEP-1999; 99WO-US20534.				
PR	13-SEP-1999; 99WO-US2044.				
PR	15-SEP-1999; 99WO-US21090.				
PR	15-SEP-1999; 99WO-US21547.				
PR	05-OCT-1999; 99WO-US23099.				
PR	01-DEC-1999; 99WO-US2801.				
PR	02-DEC-1999; 99WO-US28564.				
PR	16-DEC-1999; 99WO-US3095.				
PR	20-DEC-1999; 99WO-US30911.				
PR	05-JAN-2000; 2000WO-US0219.				
PR	11-FEB-2000; 2000WO-US03665.				
PR	22-FEB-2000; 2000WO-US04414.				
PR	28-JUL-2000; 2000WO-US2010.				
PR	24-AUG-2000; 2000WO-US23328.				
PR	17-SEP-1997; 97US-059113P.				
PR	17-SEP-1997; 97US-059115P.				
PR	17-SEP-1997; 97US-059117P.				
PR	18-SEP-1997; 97US-059266P.				
PR	15-OCT-1997; 97US-062125P.				
PR	17-OCT-1997; 97US-062285P.				
PR	21-OCT-1997; 97US-063466P.				

PR 24-OCT-1997; 97US-062816P.

XX

PA

(GETH) GENENTECH INC.

XX

PI

WPI: 2003-361832/34.
DR N-PSDB; ACA58306.

XX

PD 02-JAN-2003.
XX
XX
PR 11-JUL-2001; 2001US-0904011.
PR XX
PR 10-SEP-1998; 98WO-US18824.
PR 14-SEP-1998; 98WO-US19177.
PR 16-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 01-DEC-1998; 98WO-US25108.
PR 08-SEP-1999; 99WO-US20594.
PR 13-SEP-1999; 99WO-US20944.
PR 15-SEP-1999; 99WO-US21547.
PR 15-SEP-1999; 99WO-US2089.
PR 29-NOV-1999; 99WO-US28214.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US23301.
PR 02-DEC-1999; 99WO-US28565.
PR 20-DEC-1999; 99WO-US30911.
PR 20-DEC-1999; 99WO-US31999.
PR 20-MAR-2000; 2000WO-US00219.
PR 11-FEB-2000; 2000WO-US03565.
PR 22-FEB-2000; 2000WO-US0414.
PR 24-FEB-2000; 2000WO-US0004.
PR 02-MAR-2000; 2000WO-US05841.
PR 20-MAR-2000; 2000WO-US0377.
PR 22-MAY-2000; 2000WO-US0439.
PR 02-JUN-2000; 2000WO-US13264.
PR 28-AUG-2000; 2000WO-US20710.
PR 24-AUG-2000; 2000WO-US23328.
PR 17-SEP-1997; 97US-059113P.
PR 17-SEP-1997; 97US-059115P.
PR 17-SEP-1997; 97US-059117P.
PR 17-SEP-1997; 97US-059119P.
PR 17-SEP-1997; 97US-059121P.
PR 17-SEP-1997; 97US-059122P.
PR 17-SEP-1997; 97US-059184P.
PR 18-SEP-1997; 97US-059263P.
PR 15-OCT-1997; 97US-062125P.
PR 15-OCT-1997; 97US-062125P.
PR 17-OCT-1997; 97US-062285P.
PR 17-OCT-1997; 97US-062287P.
PR 21-OCT-1997; 97US-063486P.
PR 24-OCT-1997; 97US-063814P.
PR 24-OCT-1997; 97US-063816P.
PR 24-OCT-1997; 97US-063045P.
PR 24-OCT-1997; 97US-063120P.
PR 24-OCT-1997; 97US-063121P.
PR 24-OCT-1997; 97US-063127P.
PR 27-OCT-1997; 97US-06327P.
PR 27-OCT-1997; 97US-063329P.
PR 28-OCT-1997; 97US-063341P.
PR 28-OCT-1997; 97US-063342P.
PR 28-OCT-1997; 97US-063344P.
PR 28-OCT-1997; 97US-063349P.
PR 28-OCT-1997; 97US-063350P.
PR 28-OCT-1997; 97US-063354P.
PR 29-OCT-1997; 97US-0633435P.
PR 29-OCT-1997; 97US-0633435P.
PR 29-OCT-1997; 97US-063370P.
PR 31-OCT-1997; 97US-0633870P.
PR 31-OCT-1997; 97US-064103P.
PR 07-NOV-1997; 97US-064809P.
PR 12-NOV-1997; 97US-065186P.

New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or PRO68, useful in molecular biology, chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy -

Claim 12; Fig 9; 474pp; English.

The present invention relates to the isolation of novel human secreted and transmembrane proteins (PRO polypeptides), and the polynucleotide sequences encoding them. The polynucleotide sequences are useful in molecular biology, as hybridisation probes, in chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy. The polynucleotide sequences may also be used in preparing PRO Polypeptides by recombinant techniques, and in generating either transgenic animals or knock-out animals which, in turn, are useful in the development and screening of therapeutically useful reagents. The PRO Polypeptides or their antibodies are useful in preparing a medicament for treating a condition responsive to the polypeptide or antibody, such as cancer, Alzheimer's disease or ischaemia, and in various diagnostic assays.

ABU71445-ABU71505 represent human PRO polypeptides of the invention.

Sequence 189 AA:

Query Match 100.0%; Score 10/15; DB 24; Length 189;

Best Local Similarity 100.0%; Pred No. 5.3e-86; Mismatches 0; Indels 0; Gaps 0;

Matches 189; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MTHRHTTWAARTSRAVTPTCATPAGPMPPSRPLPSLRLHSACCSGDPASYRKGAPQ 60

1 MTHRHTTWAARTSRAVTPTCATPAGPMPPSRPLPSLRLHSACCSGDPASYRKGAPQ 60

61 PTIGVYPOASVPLTLDAQWEPVLYPEALHNATMUYCPTVPHDPPMALSRTPTQTS 120

61 PTIGVYPOASVPLTLDAQWEPVLYPEALHNATMUYCPTVPHDPPMALSRTPTQTS 120

QY 121 SSDDTPPADQPSNPLCCCHGPAFSTLNVLRLHPOEFPAPHYDYSQWSTVSPAS 180

121 SSDDTPPADQPSNPLCCCHGPAFSTLNVLRLHPOEFPAPHYDYSQWSTVSPAS 180

Db 181 RQALRRQAQ 189

181 RQALRRQAQ 189

RESULT 4
ABU71894
ID ABU71894 standard; Protein; 189 AA.
XX
AC ABU71894;
XX
DT 12-JUN-2003 (first entry)
XX
DE Human secreted/transmembrane protein PRO232.
XX
KW Human; secreted protein; transmembrane protein; PRO;
gene therapy; chromosome identification; chromosome marker.
XX
QS Homo sapiens.
XX
PN US2003003530-A1.
XX

PR	17-NOV-1997;	97US-065846P.	Db	121	SSDTDPADGPSNPLCCCFHGFATSTINPVLRLFPOEAFFAHPIYDLSQWWSVSPAPS	180
PR	18-NOV-1997;	97US-065639P.	Qy	181	RGOALRRAQ	189
PR	21-NOV-1997;	97US-066120P.	DB	181	RGOALRRAQ	189
PR	21-NOV-1997;	97US-066364P.				
PR	24-NOV-1997;	97US-066453P.				
PR	24-NOV-1997;	97US-066466P.				
PR	24-NOV-1997;	97US-066511P.				
PR	24-NOV-1997;	97US-066770P.				
PR	24-NOV-1997;	97US-066772P.				
PR	18-SEP-2000;	2000US-0665550.				
XX						
PA	(GETH) GENENTECH INC.					
XX						
PI	Ashkenazi A,	Bottstein D,	Desnoyers L,	Eaton DL,	Ferrara N;	
PI	Filvaroff E,	Fong S,	Gao W,	Gerber H,	Gerritsen ME,	Goddard A;
PI	Godowski PJ,	Grimaldi JC,	Gurney AL,	Hillan KJ,	KlJavin IJ;	
PI	Mather JP,	Pan J,	Paoni NF,	Roy MA,	Stewart TA,	Tumas D;
PT	Williams PM,	Wood WI;				
XX						
DR	WPI;	2003-329602/31.				
XX						
PT	New transmembrane polypeptides and nucleic acids encoding the					
PT	polypeptides, useful in gene therapy, in chromosome identification, as					
PT	chromosome markers, in generating probes and in tissue typing					
XX						
PS	Claim 12; Fig 9; 484pp; English.					
XX						
CC	The invention relates to an isolated nucleic acid with at least 80%					
CC	nucleic acid sequence identity to a nucleotide sequence encoding one of					
CC	61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a					
CC	PRO protein extracellular domain. Also included are a vector comprising					
CC	the PRO nucleic acid, a host cell comprising the vector, producing a PRO					
CC	polypeptide (by culturing the host cell for the expression of the PRO					
CC	polypeptide, and recovering the PRO polypeptide from the cell culture),					
CC	an isolated PRO polypeptide (having at least 80% sequence identity					
CC	to: (a) an amino acid sequence selected from the 61 PRO proteins;					
CC	(b) an amino acid sequence encoded by a nucleic acid molecule deposited					
CC	with an ATCC number (detailed in the specification); or (c) an					
CC	extracellular domain of a PRO polypeptide or to a PRO polypeptide lacking					
CC	its associated signal peptide), a chimaeric molecule comprising a PRO					
CC	polypeptide of fused to a heterologous amino acid sequence, an anti-PRO					
CC	antibody, detecting a PRO245 or PRO1868 in a sample suspected of					
CC	containing the Polypeptide, linking a bioactive molecule to a cell					
CC	expressing a PRO245 or PRO1868 and modulating at least one biological					
CC	activity of a cell expressing a PRO245 or PRO1868. Nucleic acids which					
CC	encode PRO can be used to generate either transgenic animals or knock-out					
CC	animals which may be used in the development and screening of					
CC	therapeutically useful reagents. The nucleic acids may also be used in					
CC	gene therapy, in chromosome identification, as chromosome markers, or in					
CC	generating probes. The PRO polypeptides are useful as molecular markers					
CC	for protein electrophoresis, and the isolated nucleic acids may be used					
CC	for recombinantly expressing those markers. The PRO polypeptides and					
CC	nucleic acids may also be used in tissue typing. Anti-PRO antibodies					
CC	are useful in diagnostic assays for PRO, and in affinity purification					
CC	of PRO from recombinant cell culture or natural sources. The					
CC	present sequence represents a PRO protein.					
XX						
SQ	Sequence 189 AA;					
Query Match	100 %;	Score 1045;	DB 24;	Length 189;		
Best Local Similarity	100.0 %;	Pred. No. 5.	3e-86;			
Matches	189;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
Qy	1 MTHRTITWARRTSRAVTPTCATPGMPMCSRLLPSITRCLSACCGGDASYRLWQAPLQ	60				
Db	1 MTHRTITWARRTSRAVTPTCATPGMPMCSRLLPSIURCSLHSACCGGDASYRLWQAPLQ	60				
Qy	61 PTLGVVPOASVPLTLDAQWNPVLYVEAHPWASLTYVCTVPHPPPMALSRTPRQIS	120				
Db	61 PTLGVVPOASVPLTLDAQWNPVLYVEAHPWASLTYVCTVPHPPPMALSRTPRQIS	120				
Oy	121 SSDTDPADGPSNPLCCCFHGFATSTINPVLRLFPOEAFFAHPIYDLSQWWSVSPAPS	180				

PR 01-DEC-1999; 9900-US28301.
 PR 02-DEC-1999; 9900-US28564.
 PR 02-DEC-1999; 9900-US28565.
 PR 16-DEC-1999; 9900-US30095.
 PR 20-DEC-1999; 9900-US3099.
 PR 11-FEB-2000; 200000-US0219.
 PR 22-FEB-2000; 200000-US03565.
 PR 24-FEB-2000; 200000-US0441A.
 PR 02-MAR-2000; 200000-US05004.
 PR 02-MAR-2000; 200000-US05841.
 PR 20-MAR-2000; 200000-US07377.
 PR 22-MAY-2000; 200000-US14042.
 PR 02-JUN-2000; 200000-US15264.
 PR 20-JUL-2000; 200000-US20710.
 PR 24-AUG-2000; 200000-US23328.
 PR 17-SEP-1997; 97US-059113P.
 PR 17-SEP-1997; 97US-059115P.
 PR 17-SEP-1997; 97US-059117P.
 PR 17-SEP-1997; 97US-059119P.
 PR 17-SEP-1997; 97US-059121P.
 PR 17-SEP-1997; 97US-059122P.
 PR 11-SEP-1997; 97US-059184P.
 PR 18-SEP-1997; 97US-059263P.
 PR 18-SEP-1997; 97US 059265.
 PR 15-OCT-1997; 97US-062125P.
 PR 17-OCT-1997; 97US-062285P.
 PR 21-OCT-1997; 97US-063486P.
 PR 24-OCT-1997; 97US-062814P.
 PR 24-OCT-1997; 97US-062816P.
 PR 24-OCT-1997; 97US-063045P.
 PR 24-OCT-1997; 97US-063120P.
 PR 24-OCT-1997; 97US-063121P.
 PR 24-OCT-1997; 97US-063127P.
 PR 27-OCT-1997; 97US-063328P.
 PR 27-OCT-1997; 97US-063332P.
 PR 28-OCT-1997; 97US-0633329P.
 PR 28-OCT-1997; 97US-063341P.
 PR 28-OCT-1997; 97US-063542P.
 PR 28-OCT-1997; 97US-063544P.
 PR 28-OCT-1997; 97US-063549P.
 PR 28-OCT-1997; 97US-063550P.
 PR 28-OCT-1997; 97US-063554P.
 PR 29-OCT-1997; 97US-063343P.
 PR 29-OCT-1997; 97US-063704P.
 PR 29-OCT-1997; 97US-063732P.
 PR 29-OCT-1997; 97US-063734P.
 PR 29-OCT-1997; 97US-063735P.
 PR 29-OCT-1997; 97US-063738P.
 PR 31-OCT-1997; 97US-063870P.
 PR 31-OCT-1997; 97US-064103P.
 PR 03-NOV-1997; 97US-064248P.
 PR 07-NOV-1997; 97US 064809.
 PR 12-NOV-1997; 97US-065186P.
 PR 17-NOV-1997; 97US-065846P.
 PR 18-NOV-1997; 97US-065693P.
 PR 21-NOV-1997; 97US-066120P.
 PR 24-NOV-1997; 97US-066364P.
 PR 24-NOV-1997; 97US-066453P.
 PR 24-NOV-1997; 97US-066466P.
 PR 24-NOV-1997; 97US-066511P.
 PR 24-NOV-1997; 97US-066770P.
 PR 24-NOV-1997; 97US-066772P.
 XX 18-SEP-2000; 200000-0665350.
 PA (GEPH) GENENTECH INC.
 PI Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N,
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A,
 PI Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ,
 PI Godowski PJ,

PR Matlher JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tunas D;
 PI Williams PM, Wood WI;
 XX DR WP1; 2003-280105/18.
 XX DR N-PSDB; ABX96030.

PT New secreted and transmembrane PRO polypeptides (e.g. PRO533 or PRO245) and genes encoding them, useful for detecting or treating e.g. hyperplasia, endometriosis, cancers, ischemia, coronary arterial disease or inflammations

PT claim 12; Fig 9; 47pp; English.

XX The invention discloses isolated PRO secreted/transmembrane polypeptides and the nucleic acid encoding them. The polypeptides can be used to raise antibodies that specifically bind to the PRO polypeptide, for linking a bioactive molecule to a cell expressing a PRO protein and for modulating at least one biological activity of a cell. The PRO polypeptides, or polynucleotides are also useful as pharmaceuticals, diagnostics, biosensors or bioreactors, for detecting or treating e.g. hyperplasia, endometriosis, cancers (e.g. those involving solid tumours), ischaemia, coronary arterial disease, polycystic kidney disease, chronic or acute renal failure, or inflammatory responses (e.g. asthma, rheumatoid arthritis, psoriasis or multiple sclerosis) in mammals. The PRO genes may also be used in gene therapy, particularly for replacing a defective gene. The sequences presented in ABU64499-ABU64559 are the PRO polynucleotides of the invention.

XX Sequence 189 AA:

Query	Match	Score	DB	Length
Best	Local Similarity	100.0%	24;	189;
Matches	Conservative	100.0%	Pred. No. 5, 3e-86;	
Db	Mismatches	0;	Indels	0;
QY	1	MTHRTTWARTSRAVTPTCATPGPMCSRLLPSLRSLSHSACCGDPASTRLWAGPLQ 60		
1	MTHRTTWARTSRAVTPTCATPGPMCSRLLPSLRSLSHSACCGDPASTRLWAGPLQ 60			
Db	61	PTLGWVPOASVPLTDLAGWEPVLPVPEAHIPNALSCTMVYCTPYPHPDPEMAASRTPHQIS 120		
61	PTLGWVPOASVPLTDLAGWEPVLPVPEAHIPNALSCTMVYCTPYPHPDPEMAASRTPHQIS 120			
QY	121	SSDPDPADGPSNLCCCFPHGPASTLNVLRLHPQEAHPAPYIDSQWSWSAPS 180		
121	SSDPDPADGPSNLCCCFPHGPASTLNVLRLHPQEAHPAPYIDSQWSWSAPS 180			
Db	181	RQQAARRAQ 189		
181	RQQAARRAQ 189			

RESULT 7

ABU54350
 ID ABU54350 standard; Protein; 189 AA.
 XX ABU54350;
 XX AC ABU54350;
 DT 10-MAR-2003 (first entry)

XX DE Human secreted/transmembrane protein PRO232.

XX Human; PRO; secreted protein; transmembrane protein; enterocolitis; gastrointestinal ulceration; skin disease; abnormal keratinoocyte differentiation; psoriasis; epithelial cancer; squamous cell carcinoma; Alzheimer's disease; amytrophic lateral sclerosis; inflammatory disease; rheumatoid arthritis; asthma; multiple sclerosis; organ failure; atherosclerosis; cardiac injury; infertility; birth defect; premature aging; AIDS; acquired immunodeficiency syndrome; cancer; diabetic complication; wound repair.

XX KW Homo sapiens.

PN US2002132240-A1.
 XX
 PD 19-SEP-2002.
 XX
 PF 18-JUL-2001; 2001US-0909320.
 XX
 PR 10-SEP-1998; 98WO-US18824.
 PR 14-SEP-1998; 98WO-US19177.
 PR 16-SEP-1998; 98WO-US19330.
 PR 17-SEP-1998; 98WO-US19437.
 PR 01-DEC-1998; 98WO-US25108.
 PR 08-SEP-1999; 99WO-US20594.
 PR 13-SEP-1999; 99WO-US20344.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 05-OCT-1999; 99WO-US23089.
 PR 01-DEC-1999; 99WO-US28301.
 PR 02-DEC-1999; 99WO-US28364.
 PR 16-DEC-1999; 99WO-US28565.
 PR 20-DEC-1999; 99WO-US30911.
 PR 06-JAN-2000; 99WO-US3099.
 PR 11-FEB-2000; 2000WO-US0565.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 17-SEP-1997; 97US-059113P.
 PR 17-SEP-1997; 97US-059115P.
 PR 15-OCT-1997; 97US-061225P.
 PR 17-OCT-1997; 97US-062287P.
 PR 17-OCT-1997; 97US-062386P.
 PR 24-OCT-1997; 97US-062814P.
 PR 24-OCT-1997; 97US-062816P.
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi A, Botstein D, Desnoyers L, Eaton DJ, Ferrara N;
 Filvaroff E, Fong S, Gao W, Gerber H, Gerritzen ME, Goddard A;
 Godowski PJ, Grimaldi JC, Gurney AL, Hillian KJ, Kljavin LJ;
 Matier JP, Pan J, Paoni NF, Roy MA, Stewart TR, Tumas D;
 Williams PM, Wood WI;
 XX
 DR WPI; 2003-147434/4.
 DR N-PSDB; ABX71461.
 XX
 PT New PRO polypeptides and nucleic acid molecules, useful in diagnosing
 or treating inflammatory diseases, organ failure, atherosclerosis,
 cardiac injury, infertility, cancer, AIDS, Alzheimer's disease or
 Parkinson's disease -
 XX
 PS Claim 12; Fig 9; 473pp; English.
 XX
 CC The invention relates to an isolated PRO polypeptide having at least 80%
 amino acid sequence identity to: (a) any one of 61 fully defined amino
 acid sequences given in the specification (appearing as ABUS437-
 ABUS4407); (b) an amino acid sequence encoded by the nucleotide sequence
 deposited under American Type Culture Collection (accession numbers
 listed in the specification); (c) any one of the PRO sequences which
 lacks its associated signal peptide; (d) an extracellular domain of the
 PRO polypeptide with its associated signal peptide; or (e) an
 extracellular domain of the PRO polypeptide which lacks its associated
 signal peptide. Also include are the nucleic acids encoding the PRO
 polypeptides, vectors, host cells and anti-PRO antibodies.
 The PRO polypeptides and nucleic acids are useful in diagnosing
 or treating enterocolitis, gastrointestinal ulceration, skin diseases
 associated with abnormal keratinocyte differentiation, e.g. psoriasis
 or epithelial cancers such as squamous cell carcinoma, Alzheimer's
 disease, Parkinson's disease, amyotrophic lateral sclerosis,
 inflammatory diseases, e.g. rheumatoid arthritis, asthma or multiple
 sclerosis, organ failure, atherosclerosis, cardiac injury, infertility,
 XX

CC birth defects, premature aging, AIDS, cancer, diabetic complications,
 CC or mutations in general. The polypeptides are also useful for wound
 repair and associated therapies concerned with re-growth of tissue. The
 CC nucleotide sequences may be used as hybridisation probes in chromosome
 CC and gene mapping, or in generating antisense RNA and DNA. PRO nucleic
 acids are also useful in preparing PRO polypeptides, in assays to
 CC identify other proteins or molecules involved in binding reaction, to
 CC generate transgenic animals or knockout animals, which in turn are
 CC useful in the development and screening of therapeutically useful
 reagents, for chromosome identification, and tissue typing. The PRO
 CC polypeptides and nucleic acid molecules are also useful in gene
 CC therapy, and as molecular weight markers for protein electrophoresis
 CC purposes. The anti-PRO antibodies may be used in diagnostic assays for
 CC PRO, or for the affinity purification of PRO from recombinant cell
 CC culture or natural sources. The present sequence represents a PRO
 CC polypeptide.
 XX

SQ Sequence 189 AA:
 Query Match Best Local Similarity Score 100%; Length 189;
 Matches 189; Conservative 100%; Pred. No. 5; 3e-86;
 Mismatches 0; Indels 0; Gaps 0;

Qy	1 MTHRTTWARRTSRAVPTCATPAGAPCNSRLPPSRLSLSACCGDPASYRMLCPIQ
Db	1 MTHRTTWARRTSRAVPTCATPAGAPCNSRLPPSRLSLSACCGDPASYRMLCPIQ
Qy	61 PTLGVWVQASVPLTIDLAQEWPLVPEAHPLASLTVMTVCTVPHPPPMALSRTPRQIS
Db	61 PTLGVWVQASVPLTIDLAQEWPLVPEAHPLASLTVMTVCTVPHPPPMALSRTPRQIS
Qy	121 SSDDTPPADGSNSNPLCCCFHGPAFSLNPVLRLFQEAAFPAPIVDSLQSOWSVSPAPS
Db	121 SSDDTPPADGSNSNPLCCCFHGPAFSLNPVLRLFQEAAFPAPIVDSLQSOWSVSPAPS
Qy	181 RQQALARAQ 189
Db	181 RQQALARAQ 189

RESULT 8
 AAY6174
 ID AAY6174 standard; Protein; 187 AA.
 AC AAY6174;
 XX
 DT 14-FEB-2000 (first entry).
 XX
 DE Human bladder tumour EST encoded protein 32.
 KW
 Expressed sequence tag; human; bladder; tumour; cancer; cytostatic;
 KW treatment; gene therapy; EST.
 XX
 OS Homo sapiens.
 XX
 PN DEL9818619-A1.
 XX
 PD 28-OCT-1999.
 XX
 PR 21-APR-1998; 98DE-1018619.
 PR 21-APR-1998; 98DE-1018619.
 XX
 PA (META-) METAGEN GES GENOMFORSCHUNG MBH.
 XX
 PI Rosenthal A, Specht T, Hinmann B, Schmitt A, Pilarsky C, Dahl E;
 XX
 DR WPI; 1999-612028/53.
 XX
 PT New nucleic acid sequences expressed in bladder tumor tissue, and
 derived polypeptides, for treatment of bladder tumor and identification
 PT of therapeutic agents -
 XX

PS Claim 23; Page 111; 132pp; German.

PT

XX

CC

CC

This invention describes novel polypeptide fragments (I) and the polynucleotides (II) that encode them that are highly expressed in a human bladder tumour and which have cytostatic activity. (II) are used for recombinant expression of (I) and to isolate complete genes. (I) are used to identify agents suitable for treatment of bladder cancer. To directly treat this form of cancer (including expression from gene therapy vectors) or are used in a preparation for cancer treatment. (I) is also used for the generation of specific antibodies. (II) are identified by assembling ESTs (expressed sequence tags) from a particular tissue type before comparison of expression patterns. This allows a significantly longer fragment of the gene to be revealed, and therefore reduces the number of failures associated with the fact that ESTs from different libraries may represent different parts of the same unknown gene, distorting the estimated frequency of occurrence in a particular tissue. AAY66143-Y66198 represent protein fragments encoded by CC the human bladder tumour cDNA library derived expressed sequence tag CC (EST) fragments represented in AAZ43260-243309.

XX
SQ Sequence 187 AA;

Query Match 95.5%; Score 998; DB 20; Length 187;

Best Local Similarity 97.8%; Pred. No. 8.7e-82; Mismatches 0; Indels 0; Gaps 0;

Matches 182; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY

4 RTTWARRTSRAVTPTCATPAGPMPCSRPLSPSLRCSLHSACCGSDPASRYRLNGAPLQPTL 63

Db 2 RAARGARRTSRAVTPTCATPAGPMPCSRPLSPSLRCSLHSACCGSDPASRYRLNGAPLQPTL 61

QY 64 GVPVQASVPLTLDAQWEPVLPVPEARPNASLTMVYCTPPVRDPDPMALSRPTROISSD 123

Db 62 GVPVQASVPLTLDAQWEPVLPVPEARPNASLTMVYCTPPVRDPDPMALSRPTROISSD 121

QY 124 TDPPADGPSPLCCCFPHGAPFSTLPVLRHLPQEAFPAPIYDLSQWSVMSVSPAPSRGQ 183

Db 122 TDPPADGPSPLCCCFPHGAPFSTLPVLRHLPQEAFPAPIYDLSQWSVMSVSPAPSRGQ 181

QY 184 ALRRAQ 189

Db 182 ALRRAQ 187

XX

SQ Sequence 1518 AA;

Query Match 11.4%; Score 119; DB 24; Length 1518;

Best Local Similarity 28.9%; Pred. No. 0.072; Mismatches 19; Indels 79; Gaps 8;

Matches 56; Conservative 19; Mismatches 79; Indels 40; Gaps 8;

Db 744 HTRTRPSKRPSRPSQSVSRPSPSEPLHPCPPQPAQPTL-----PGIF----VI 786

QY 60 QTTLGIVPQASVPLTLDAQWEPVLPVPEARPNASLTMVYCTPPVRDPDPMALSRPTROI 119

Db 787 QNQLGIVPPASINPAPTARGPPQRPQSQQPSEG-----PLP-BAPHLBPPSSAV 838

QY 120 SSSDTDP--PADGSPN---PLCCCFPHGAPFSTLPVLRHLPQEAFPAPIYDLSQV 171

Db 839 SSSETSSRILPATPSPDRQIQFPP---SGPHKSPPPPTLVLPERAAPPPPRFTQM 894

QY 172 WSVVSAPAFSRGQ 185

Db 895 VITPFPLPQPKAL 908

XX

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU53162;

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU53162;

XX

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU53162;

XX

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU53162;

XX

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU53162;

XX

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU53162;

XX

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU53162;

XX

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU53162;

XX

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU53162;

XX

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU53162;

XX

RESULT 10

ABU53162 ID ABU53162 standard; Protein; 277 AA.

XX

AC ABU5316

CC This invention describes novel polynucleotides and polypeptides isolated from human cDNA libraries which can be used for gene therapy or in vaccines. The polynucleotides of the invention and antibodies encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate polypeptide expression. The products of the invention may also be used to identify modulators of expression and activity and to down regulate expression and activity. The antibodies of the invention may also be used as diagnostic agents for detecting the presence of polypeptides in samples. This sequence represents a homologue of a polypeptide described in the disclosure of the invention.

XX SQ Sequence 277 AA:

Query Match	11.2%	Score 117.5;	DB 22;	Length 277;
Best Local Similarity	23.2%	Pred. No. 0.015;	Mismatches	41; Conservative 23; Mismatches 98; Indels 15; Gaps 5;
Matches	41;	Indels	15;	Gaps 5;

QY 5 TTWARRRSRAVPTCATPAGPMPCSRPLPSLRSLSHSAACCGSDPASYRLWGAPLOPLG 64

Db 104 TTPSPPTPTTPTPBPPTPTPSPPTPTPSPPTTTTPSPPTTTTPP--PTPTPSPPP 216

QY 65 WPOASVPL-TDIAQWEVLVBEAHPNASLTMVCTVPHDPMALSRTPQISS 122

Db 162 PSPPPTTPTPPTSTTLPPTTSPPPPTTSPPTTTTPSPPTTTTPP--PTPTPSPPP 216

QY 123 DTDPADGSNPLGCCFHGAFASTLNVPVRHLFQEAAFPAHPIYDLSQWSWSWPAP 179

Db 217 TTPPTTPTPSSPPTTSPPTTTMPT----SPTTTPSSPITTTPSSTTTPSP 267

RESULT 11

ABU53157 ABU53157 standard; Protein; 368 AA.

AC AC;

XX DT 14-APR-2003 (first entry)

DE Human testes-derived DKFZphes3_2all homologue #17.

XX KW Human; gene therapy; vaccine; disease treatment; detection.

XX OS Homo sapiens.

XX PN WO200112659-A2.

PD 22-FEB-2001.

XX PR 18-AUG-2000; 2000WO-IB01496.

XX PR 18-AUG-1999; 99US-0149499.

XX PR 28-SEP-1999; 99US-0156503.

PA (GEHU-) GERMAN HUMAN GENOME PROJECT.

XX PI Wiemann S;

XX DR WP2; 2001-327840/34.

PT Nucleic acids having the sequences of clones isolated from libraries of different human tissues, useful in recombinant DNA methodologies

PS Example III; Page 773; 109pp; English.

XX CC This invention describes novel polynucleotides and polypeptides isolated from human cDNA libraries which can be used for gene therapy or in vaccines. The polynucleotides of the invention and antibodies encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate polypeptide expression. The products of the invention may also be used to identify modulators of expression and activity and to down regulate expression and activity. The antibodies of the invention may also be used as diagnostic agents for detecting the presence of polypeptides in samples. This sequence represents a homologue of a polypeptide described in the disclosure of the invention.

XX SQ Sequence 368 AA:

Query Match	11.2%	Score 117.5;	DB 22;	Length 368;
Best Local Similarity	23.2%	Pred. No. 0.021;	Mismatches	41; Conservative 23; Mismatches 98; Indels 15; Gaps 5;
Matches	41;	Indels	15;	Gaps 5;

QY 5 TTWARRRSRAVPTCATPAGPMPCSRPLPSLRSLSHSAACCGSDPASYRLWGAPLOPLG 64

Db 163 TTPSPPTPTTPTPBPPTPTPSPPTTTTPSPPTTTTPSPPTTTTPP--PTPTPSPPP 220

QY 65 WPOASVPL-TDIAQWEVLVBEAHPNASLTMVCTVPHDPMALSRTPQISS 122

Db 221 PSPPPTTPTPPTSTTLPPTTSPPPPTTSPPTTTTPSPPTTTTPP--PTPTPSPPP 276

QY 123 DTDPADGSNPLGCCFHGAFASTLNVPVRHLFQEAAFPAHPIYDLSQWSWSWPAP 179

Db 276 TTPPTTPTPSSPITTPSPPTTTMPT----SPTTTPSSPITTTPSSTTTPSP 326

RESULT 12

ABU53156 ABU53156 standard; Protein; 385 AA.

AC AC;

XX DT 14-APR-2003 (first entry)

DE Human testes-derived DKFZphes3_2all homologue #16.

XX KW Human; gene therapy; vaccine; disease treatment; detection.

XX OS Homo sapiens.

XX PN WO200112659-A2.

PD 22-FEB-2001.

XX PR 18-AUG-2000; 2000WO-IB01496.

XX PR 18-AUG-1999; 99US-0149499.

XX PR 28-SEP-1999; 99US-0156503.

PA (GEHU-) GERMAN HUMAN GENOME PROJECT.

XX PI Wiemann S;

XX DR WP2; 2001-327840/34.

PT Nucleic acids having the sequences of clones isolated from libraries of different human tissues, useful in recombinant DNA methodologies

PS Example III; Page 773; 109pp; English.

XX CC This invention describes novel polynucleotides and polypeptides isolated from human cDNA libraries which can be used for gene therapy or in vaccines. The polynucleotides of the invention and antibodies encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate polypeptide expression. The products of the invention may also be used to identify modulators of expression and activity and to down regulate expression and activity. The antibodies of the invention may also be used as diagnostic agents for detecting the presence of polypeptides in samples. This sequence represents a homologue of a polypeptide described in the disclosure of the invention.

XX SQ Sequence 385 AA:

Query Match	11.2%	Score 117.5;	DB 22;	Length 385;
Best Local Similarity	23.2%	Pred. No. 0.021;	Mismatches	41; Conservative 23; Mismatches 98; Indels 15; Gaps 5;
Matches	41;	Indels	15;	Gaps 5;

QY 5 TTWARRRSRAVPTCATPAGPMPCSRPLPSLRSLSHSAACCGSDPASYRLWGAPLOPLG 64

DT 14-APR-2003 (first entry)
 DE Human testes-derived DKFZphtes3_2a11 homologue #20.
 XX
 KW Human; gene therapy; vaccine; disease treatment; detection.
 XX
 OS Homo sapiens.
 XX
 PN WO200112659-A2.
 XX
 PD 22-FEB-2001.
 XX
 PF 18-AUG-2000; 2000WO-1H01496.
 XX
 PR 18-AUG-1999; 99US-0149499.
 XX
 PR 28-SEP-1999; 99US-0156503.
 XX
 PA (GEHU-) GERMAN HUMAN GENOME PROJECT.
 XX
 PI Wiemann S;
 XX
 DR WPI; 2001-327840/34.
 XX
 PT Nucleic acids having the sequences of clones isolated from libraries of different human tissues, useful in recombinant DNA methodologies.
 XX
 PS Example III; Page 774-775; 1095pp; English.
 XX
 CC This invention describes novel polynucleotides and polypeptides isolated from human cDNA libraries which can be used for gene therapy or in vaccines. The polynucleotides of the invention and antibodies encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate polypeptide expression. The products of the invention may also be used to identify modulators of expression and activity and to down regulate expression and activity. The antibodies of the invention may also be used as diagnostic agents for detecting the presence of polypeptides in samples. This sequence represents a homolog of a polypeptide described in the disclosure of the invention.
 XX
 SQ Sequence 395 aa;
 Query Match 11.2%; Score 117.5; DB 22; Length 395;
 Best Local Similarity 23.2%; Pred. No. 0.022; Gaps 41; Conservative 23; Mismatches 98; Indels 15; Gaps 41; Conservative 23; Mismatches 98; Indels 15; Gaps
 OY 5 TTTTWARMSRAVTPCATPAGPMPCSRPLSLRCSSLSSACCSGDPASVRLWGAQPLTG 66
 ||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
 Db 165 TTPSPPPPTTTPPPTTTPSPPTTTPSPPTTTPSPPTTTPP-PTTT 22
 OY 65. WFOAQSYPLL-TDLAODKEPVLYPUAEPAHNRASLTMVYCTPVPVPHDPPMALSRTTROISS 129
 ||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
 Db 223 PSSPTTTPITPPSTTILPPTTPSPPTTTP--PPTTPSPS-P-TTTPSPPTT 27
 OY 123 DDTTPPAGCPSNLUCCCHFGPAESTLNPNVLRHLPQEARPAHPIYLDLSQWSVSVSPAP 179
 ||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
 Db 278 TTPPPTTTPSPSPTTTPSPPTTTP-----SPTTPSPSPTTTPSPSPTTSPSPTT 328

AAV66174
ID AAV66174 standard; Protein; 187 AA.
XX
AC AAV66174;
XX
DT 14-FEB-2000 (first entry)
XX
DE Human bladder tumour EST encoded protein 32.
XX
KW Expressed sequence tag; human; bladder; tumour; cancer; cytostatic;
KW treatment; gene therapy; EST.
XX
OS Homo sapiens.
XX
PN DE19818619-A1.
XX
PD 28-OCT-1999.
XX
PF 21-APR-1998; 98DE-1018619.
XX
PR 21-APR-1998; 98DE-1018619.
XX
PA (META-) METAGEN GES GENOMFORSCHUNG MBH.
XX
PI Rosenthal A, Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E;
XX
DR WPI; 1999-612028/53.
XX
PT New nucleic acid sequences expressed in bladder tumor tissue, and
PT derived polypeptides, for treatment of bladder tumor and identification
PT of therapeutic agents -
XX

PS Claim 23; Page 111; 132pp; German.
XX
CC This invention describes novel polypeptide fragments (I) and the
CC polynucleotides (II) that encode them that are highly expressed in a
CC human bladder tumour and which have cytostatic activity. (II) are used
CC for recombinant expression of (I) and to isolate complete genes. (I) are
CC used to identify agents suitable for treatment of bladder cancer, to
CC directly treat this form of cancer (including expression from gene
CC therapy vectors) or are used in a preparation for cancer treatment. (I)
CC is also used for the generation of specific antibodies. (II) are
CC identified by assembling ESTs (expressed sequence tags) from a
CC particular tissue type before comparison of expression patterns. This
CC allows a significantly longer fragment of the gene to be revealed, and
CC therefore reduces the number of failures associated with the fact that
CC ESTs from different libraries may represent different parts of the same
CC unknown gene, distorting the estimated frequency of occurrence in a
CC particular tissue. AAY66143-Y66198 represent protein fragments encoded by
CC the human bladder tumour cDNA library derived expressed sequence tag
CC (EST) fragments represented in AAZ43260-Z43309.
XX

SQ Sequence 187 AA;

Query Match 95.5%; Score 998; DB 20; Length 187;
Best Local Similarity 97.8%; Pred. No. 8.7e-82;
Matches 182; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 4 RTTTWARRTSRAVTPTCATPAGPMPCSRLPPSLRCSLHSACCSGDPASYRLWGAPLQPTL 63
Db 2 RAARGARRTSRAVTPTCATPAGPMPCSRLPPSLRCSLHSACCSGDPASYRLWGAPLQPTL 61
Qy 64 GVVPQASVPLLTDLAQWEPVLVPEAHPNASLTMYVCTPVPHPDPPMALSRTPTRQISSSD 123
Db 62 GVVPQASVPLLTDLAQWEPVLVPEAHPNASLTMYVCTPVPHPDPPMALSRTPTRQISSSD 121
Qy 124 TDPPADGPSNPLCCCFFHGPADFSTLNPVLRHLFPQEAFPAHPIYDLSQVWSVVSPAPSRQQ 183
Db 122 TDPPADGPSNPLCCCFFHGPADFSTLNPVLRHLFPQEAFPAHPIYDLSQVWSVVSPAPSRQQ 181
Qy 184 ALRRAQ 189
Db 182 ALRRAQ 187